04 CO
H-7

OIPE
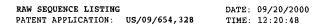
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/654,328

DATE: 09/20/2000
TIME: 12:20:48

Input Set : A:\B08017187.txt
Output Set: N:\CRF3\09202000\I654328.raw

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 4 <110> APPLICANT: Brenner, Michael B.
 5        Valencia, Xavier
 7 <120> TITLE OF INVENTION: Methods and Compositions for Treatment
 8        of Inflammatory Disease Using Cadherin-11 Modulating Agents
11 <130> FILE REFERENCE: B0801/7187/ERP/MAT
C--> 14 <140> CURRENT APPLICATION NUMBER: US/09/654,328
C--> 14 <141> CURRENT FILING DATE: 2000-09-01
14 <150> PRIOR APPLICATION NUMBER: US 60/152,456
16 <151> PRIOR FILING DATE: 1999-09-03
18 <150> PRIOR APPLICATION NUMBER: US 60/153,490
20 <151> PRIOR FILING DATE: 1999-09-13
23 <160> NUMBER OF SEQ ID NOS: 12
25 <170> SOFTWARE: FastSEQ for Windows Version 3.0
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 2625
29 <212> TYPE: DNA
30 <213> ORGANISM: Homo Sapiens
32 <220> FEATURE:
33 <221> NAME/KEY: CDS
34 <222> LOCATION: (156)...(2546)
36 <400> SEQUENCE: 1
37  cggcagccct gacgtgatga gctcaaccag cagagacatt ccatcccaag agaggtctgc      60
38  gtgacgcgtc cgggaggcca ccctcagcaa gaccaccgta cagttggtgg aagggggtgac    120
39  agctgcattc tcctgtgcct accacgtaac caaaa atg aag gag aac tac tgt        173
40                                          Met Lys Glu Asn Tyr Cys
41                                           1               5
43  tta caa gcc gcc ctg gtg tgc ctg ggc atg ctg tgc cac agc cat gcc       221
44  Leu Gln Ala Ala Leu Val Cys Leu Gly Met Leu Cys His Ser His Ala
45              10                  15                  20
47  ttt gcc cca gag cgg cgg ggg cac ctg cgg ccc tcc ttc cat ggg cac       269
48  Phe Ala Pro Glu Arg Arg Gly His Leu Arg Pro Ser Phe His Gly His
49              25                  30                  35
51  cat gag aag ggc aag gag ggg cag gtg cta cag cgc tcc aag cgt ggc       317
52  His Glu Lys Gly Lys Glu Gly Gln Val Leu Gln Arg Ser Lys Arg Gly
53              40                  45                  50
55  tgg gtc tgg aac cag ttc ttc gtg ata gag gag tac acc ggg cct gac       365
56  Trp Val Trp Asn Gln Phe Phe Val Ile Glu Glu Tyr Thr Gly Pro Asp
57   55                  60                  65                  70
59  ccc gtg ctt gtg ggc agg ctt cat tca gat att gac tct ggt gat ggg       413
60  Pro Val Leu Val Gly Arg Leu His Ser Asp Ile Asp Ser Gly Asp Gly
61                  75                  80                  85
63  aac att aaa tac att ctc tca ggg gaa gga gct gga acc att ttt gtg       461
64  Asn Ile Lys Tyr Ile Leu Ser Gly Glu Gly Ala Gly Thr Ile Phe Val
65                  90                  95                  100
67  att gat gac aaa tca ggg aac att cat gcc acc aag acg ttg gat cga       509
68  Ile Asp Asp Lys Ser Gly Asn Ile His Ala Thr Lys Thr Leu Asp Arg
69             105                 110                 115
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71  gaa gag aga gcc cag tac acg ttg atg gct cag gcg gtg gac agg gac      557
72  Glu Glu Arg Ala Gln Tyr Thr Leu Met Ala Gln Ala Val Asp Arg Asp
73      120                 125                 130
75  acc aat cgg cca ctg gag cca ccg tcg gaa ttc att gtc aag gtc cag      605
76  Thr Asn Arg Pro Leu Glu Pro Pro Ser Glu Phe Ile Val Lys Val Gln
77  135                 140                 145                 150
79  gac att aat gac aac cct ccg gag ttc ctg cac gag acc tat cat gcc      653
80  Asp Ile Asn Asp Asn Pro Pro Glu Phe Leu His Glu Thr Tyr His Ala
81                  155                 160                 165
83  aac gtg cct gag agg tcc aat gtg gga acg tca gta atc cag gtg aca      701
84  Asn Val Pro Glu Arg Ser Asn Val Gly Thr Ser Val Ile Gln Val Thr
85                  170                 175                 180
87  gct tca gat gca gat gac ccc act tat gga aat agc gcc aag tta gtg      749
88  Ala Ser Asp Ala Asp Asp Pro Thr Tyr Gly Asn Ser Ala Lys Leu Val
89              185                 190                 195
91  tac agt atc ctc gaa gga caa ccc tat ttt tcg gtg gaa gca cag aca      797
92  Tyr Ser Ile Leu Glu Gly Gln Pro Tyr Phe Ser Val Glu Ala Gln Thr
93          200                 205                 210
95  ggt atc atc aga aca gcc cta ccc aac atg gac agg gag gcc aag gag      845
96  Gly Ile Ile Arg Thr Ala Leu Pro Asn Met Asp Arg Glu Ala Lys Glu
97  215                 220                 225                 230
99  gag tac cac gtg gtg atc cag gcc aag gac atg ggt gga cat atg ggc      893
100 Glu Tyr His Val Val Ile Gln Ala Lys Asp Met Gly Gly His Met Gly
101                 235                 240                 245
103 gga ctc tca ggg aca acc aaa gtg acg atc aca ctg acc gat gtc aat      941
104 Gly Leu Ser Gly Thr Thr Lys Val Thr Ile Thr Leu Thr Asp Val Asn
105             250                 255                 260
107 gac aac cca cca aag ttt ccg cag agg cta tac cag atg tct gtg tca      989
108 Asp Asn Pro Pro Lys Phe Pro Gln Arg Leu Tyr Gln Met Ser Val Ser
109         265                 270                 275
111 gaa gca gcc gtc cct ggg gag gaa gta gga aga gtg aaa gct aaa gat     1037
112 Glu Ala Ala Val Pro Gly Glu Glu Val Gly Arg Val Lys Ala Lys Asp
113         280                 285                 290
115 cca gac att gga gaa aat ggc tta gtc aca tac aat att gtt gat gga     1085
116 Pro Asp Ile Gly Glu Asn Gly Leu Val Thr Tyr Asn Ile Val Asp Gly
117 295                 300                 305                 310
119 gat ggt atg gaa tcg ttt gaa atc aca acg gac tat gaa aca cag gag     1133
120 Asp Gly Met Glu Ser Phe Glu Ile Thr Thr Asp Tyr Glu Thr Gln Glu
121                 315                 320                 325
123 ggg gtg ata aag ctg aaa aag cct gta gat ttt gaa acc gaa aga gcc     1181
124 Gly Val Ile Lys Leu Lys Lys Pro Val Asp Phe Glu Thr Glu Arg Ala
125             330                 335                 340
127 tat agc ttg aag gta gag gca gcc aac gtg cac atc gac ccg aag ttt     1229
128 Tyr Ser Leu Lys Val Glu Ala Ala Asn Val His Ile Asp Pro Lys Phe
129         345                 350                 355
131 atc agc aat ggc cct ttc aag gac act gtg acc gtc aag atc tca gta     1277
132 Ile Ser Asn Gly Pro Phe Lys Asp Thr Val Thr Val Lys Ile Ser Val
133     360                 365                 370
135 gaa gat gct gat gag ccc cct atg ttc ttg gcc cca agt tac atc cac     1325
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136  Glu Asp Ala Asp Glu Pro Pro Met Phe Leu Ala Pro Ser Tyr Ile His
137  375             380             385             390
139  gaa gtc caa gaa aat gca gct gct ggc acc gtg gtt ggg aga gtg cat    1373
140  Glu Val Gln Glu Asn Ala Ala Ala Gly Thr Val Val Gly Arg Val His
141                  395             400             405
143  gcc aaa gac cct gat gct gcc aac agc ccg ata agg tat tcc atc gat    1421
144  Ala Lys Asp Pro Asp Ala Ala Asn Ser Pro Ile Arg Tyr Ser Ile Asp
145              410             415             420
147  cgt cac act gac ctc gac aga ttt ttc act att aat cca gag gat ggt    1469
148  Arg His Thr Asp Leu Asp Arg Phe Phe Thr Ile Asn Pro Glu Asp Gly
149          425             430             435
151  ttt att aaa act aca aaa cct ctg gat aga gag gaa aca gcc tgg ctc    1517
152  Phe Ile Lys Thr Thr Lys Pro Leu Asp Arg Glu Glu Thr Ala Trp Leu
153      440             445             450
155  aac atc act gtc ttt gca gca gaa atc cac aat cgg cat cag gaa gcc    1565
156  Asn Ile Thr Val Phe Ala Ala Glu Ile His Asn Arg His Gln Glu Ala
157  455             460             465             470
159  caa gtc cca gtg gcc att agg gtc ctt gat gtc aac gat aat gct ccc    1613
160  Gln Val Pro Val Ala Ile Arg Val Leu Asp Val Asn Asp Asn Ala Pro
161              475             480             485
163  aag ttt gct gcc cct tat gaa ggt ttc atc tgt gag agt gat cag acc    1661
164  Lys Phe Ala Ala Pro Tyr Glu Gly Phe Ile Cys Glu Ser Asp Gln Thr
165          490             495             500
167  aag cca ctt tcc aac cag cca att gtt aca att agt gca gat gac aag    1709
168  Lys Pro Leu Ser Asn Gln Pro Ile Val Thr Ile Ser Ala Asp Asp Lys
169          505             510             515
171  gat gac acg gcc aat gga cca aga ttt atc ttc agc cta ccc cct gaa    1757
172  Asp Asp Thr Ala Asn Gly Pro Arg Phe Ile Phe Ser Leu Pro Pro Glu
173          520             525             530
175  atc att cac aat cca aat ttc aca gtc aga gac cga gat aac aca    1805
176  Ile Ile His Asn Pro Asn Phe Thr Val Arg Asp Asn Arg Asp Asn Thr
177  535             540             545             550
179  gca ggc gtg tac gcc cgg cgt gga ggg ttc agt cgg cag aag cag gac    1853
180  Ala Gly Val Tyr Ala Arg Arg Gly Gly Phe Ser Arg Gln Lys Gln Asp
181              555             560             565
183  ttg tac ctt ctg ccc ata gtg atc agc gat ggc ggc atc ccg ccc atg    1901
184  Leu Tyr Leu Leu Pro Ile Val Ile Ser Asp Gly Gly Ile Pro Pro Met
185              570             575             580
187  agt agc acc aac acc ctc acc atc aaa gtc tgc ggg tgc gac gtg aac    1949
188  Ser Ser Thr Asn Thr Leu Thr Ile Lys Val Cys Gly Cys Asp Val Asn
189              585             590             595
191  ggg gca ctg ctc tcc tgc aac gca gag gcc tac att ctg aac gcc ggc    1997
192  Gly Ala Leu Leu Ser Cys Asn Ala Glu Ala Tyr Ile Leu Asn Ala Gly
193          600             605             610
195  ctg agc aca ggc gcc ctg atc gcc atc ctc gcc tgc atc gtc att ctc    2045
196  Leu Ser Thr Gly Ala Leu Ile Ala Ile Leu Ala Cys Ile Val Ile Leu
197  615             620             625             630
199  ctg gtc att gta gta ttg ttt gtg acc ctg aga agg caa aag aaa gaa    2093
200  Leu Val Ile Val Val Leu Phe Val Thr Leu Arg Arg Gln Lys Lys Glu
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                    RAW SEQUENCE LISTING          DATE: 09/20/2000
                    PATENT APPLICATION:  US/09/654,328   TIME: 12:20:48

                    Input Set : A:\B08017187.txt
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201                    635              640              645
203  cca ctc att gtc ttt gag gaa gaa gat gtc cgt gag aac atc att act    2141
204  Pro Leu Ile Val Phe Glu Glu Glu Asp Val Arg Glu Asn Ile Ile Thr
205              650              655              660
207  tat gat gat gaa ggg ggt ggg gaa gaa gac aca gaa gcc ttt gat att    2189
208  Tyr Asp Asp Glu Gly Gly Gly Glu Glu Asp Thr Glu Ala Phe Asp Ile
209              665              670              675
211  gcc acc ctc cag aat cct gat ggt atc aat gga ttt atc ccc cgc aaa    2237
212  Ala Thr Leu Gln Asn Pro Asp Gly Ile Asn Gly Phe Ile Pro Arg Lys
213              680              685              690
215  gac atc aaa cct gag tat cag tac atg cct aga cct ggg ctc cgg cca    2285
216  Asp Ile Lys Pro Glu Tyr Gln Tyr Met Pro Arg Pro Gly Leu Arg Pro
217  695              700              705              710
219  gcg ccc aac agc gtg gat gtc gat gac ttc atc aac acg aga ata cag    2333
220  Ala Pro Asn Ser Val Asp Val Asp Asp Phe Ile Asn Thr Arg Ile Gln
221              715              720              725
223  gag gca gac aat gac ccc acg gct cct cct tat gac tcc att caa atc    2381
224  Glu Ala Asp Asn Asp Pro Thr Ala Pro Pro Tyr Asp Ser Ile Gln Ile
225              730              735              740
227  tac ggt tat gaa ggc agg ggc tca gtg gcc ggg tcc ctg agc tcc cta    2429
228  Tyr Gly Tyr Glu Gly Arg Gly Ser Val Ala Gly Ser Leu Ser Ser Leu
229              745              750              755
231  gag tcg gcc acc aca gat tca gac ttg gac tat gat tat cta cag aac    2477
232  Glu Ser Ala Thr Thr Asp Ser Asp Leu Asp Tyr Asp Tyr Leu Gln Asn
233              760              765              770
235  tgg gga cct cgt ttt aag aaa cta gca gat ttg tat ggt tcc aaa gac    2525
236  Trp Gly Pro Arg Phe Lys Lys Leu Ala Asp Leu Tyr Gly Ser Lys Asp
237  775              780              785              790
239  act ttt gat gac gat tct taa caataacgat acaaatttgg ccttaagaac       2576
240  Thr Phe Asp Asp Asp Ser  *
241              795
243  tgtgtctggc gttctcaaga atctagaaga tgtgtaacag gtatttttt              2625
245  <210> SEQ ID NO: 2
246  <211> LENGTH: 796
247  <212> TYPE: PRT
248  <213> ORGANISM: Homo Sapiens
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252  1                5                10               15
253  Leu Cys His Ser His Ala Phe Ala Pro Glu Arg Arg Gly His Leu Arg
254              20               25               30
255  Pro Ser Phe His Gly His His Glu Lys Gly Lys Glu Gly Gln Val Leu
256              35               40               45
257  Gln Arg Ser Lys Arg Gly Trp Val Trp Asn Gln Phe Phe Val Ile Glu
258         50               55               60
259  Glu Tyr Thr Gly Pro Asp Pro Val Leu Val Gly Arg Leu His Ser Asp
260  65               70               75               80
261  Ile Asp Ser Gly Asp Gly Asn Ile Lys Tyr Ile Leu Ser Gly Glu Gly
262              85               90               95
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RAW SEQUENCE LISTING   DATE: 09/20/2000
PATENT APPLICATION: US/09/654,328   TIME: 12:20:48

Input Set : A:\B08017187.txt
Output Set: N:\CRF3\09202000\I654328.raw

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263 Ala Gly Thr Ile Phe Val Ile Asp Asp Lys Ser Gly Asn Ile His Ala
264             100                 105                 110
265 Thr Lys Thr Leu Asp Arg Glu Glu Arg Ala Gln Tyr Thr Leu Met Ala
266         115                 120                 125
267 Gln Ala Val Asp Arg Asp Thr Asn Arg Pro Leu Glu Pro Pro Ser Glu
268     130                 135                 140
269 Phe Ile Val Lys Val Gln Asp Ile Asn Asp Asn Pro Pro Glu Phe Leu
270 145                 150                 155                 160
271 His Glu Thr Tyr His Ala Asn Val Pro Glu Arg Ser Asn Val Gly Thr
272             165                 170                 175
273 Ser Val Ile Gln Val Thr Ala Ser Asp Ala Asp Asp Pro Thr Tyr Gly
274             180                 185                 190
275 Asn Ser Ala Lys Leu Val Tyr Ser Ile Leu Glu Gly Gln Pro Tyr Phe
276             195                 200                 205
277 Ser Val Glu Ala Gln Thr Gly Ile Ile Arg Thr Ala Leu Pro Asn Met
278     210                 215                 220
279 Asp Arg Glu Ala Lys Glu Glu Tyr His Val Val Ile Gln Ala Lys Asp
280 225                 230                 235                 240
281 Met Gly Gly His Met Gly Gly Leu Ser Gly Thr Thr Lys Val Thr Ile
282             245                 250                 255
283 Thr Leu Thr Asp Val Asn Asp Asn Pro Pro Lys Phe Pro Gln Arg Leu
284             260                 265                 270
285 Tyr Gln Met Ser Val Ser Glu Ala Ala Val Pro Gly Glu Glu Val Gly
286         275                 280                 285
287 Arg Val Lys Ala Lys Asp Pro Asp Ile Gly Glu Asn Gly Leu Val Thr
288     290                 295                 300
289 Tyr Asn Ile Val Asp Gly Asp Gly Met Glu Ser Phe Glu Ile Thr Thr
290 305                 310                 315                 320
291 Asp Tyr Glu Thr Gln Glu Gly Val Ile Lys Leu Lys Lys Pro Val Asp
292             325                 330                 335
293 Phe Glu Thr Glu Arg Ala Tyr Ser Leu Lys Val Glu Ala Ala Asn Val
294             340                 345                 350
295 His Ile Asp Pro Lys Phe Ile Ser Asn Gly Pro Phe Lys Asp Thr Val
296 355                 360                 365
297 Thr Val Lys Ile Ser Val Glu Asp Ala Asp Glu Pro Pro Met Phe Leu
298     370                 375                 380
299 Ala Pro Ser Tyr Ile His Glu Val Gln Glu Asn Ala Ala Ala Gly Thr
300 385                 390                 395                 400
301 Val Val Gly Arg Val His Ala Lys Asp Pro Asp Ala Ala Asn Ser Pro
302             405                 410                 415
303 Ile Arg Tyr Ser Ile Asp Arg His Thr Asp Leu Asp Arg Phe Phe Thr
304             420                 425                 430
305 Ile Asn Pro Glu Asp Gly Phe Ile Lys Thr Thr Lys Pro Leu Asp Arg
306         435                 440                 445
307 Glu Glu Thr Ala Trp Leu Asn Ile Thr Val Phe Ala Ala Glu Ile His
308     450                 455                 460
309 Asn Arg His Gln Glu Ala Gln Val Pro Val Ala Ile Arg Val Leu Asp
310 465                 470                 475                 480
311 Val Asn Asp Asn Ala Pro Lys Phe Ala Ala Pro Tyr Glu Gly Phe Ile
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VERIFICATION SUMMARY              DATE: 09/20/2000
PATENT APPLICATION:  US/09/654,328    TIME: 12:20:49

Input Set : A:\B08017187.txt
Output Set: N:\CRF3\09202000\I654328.raw
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L:14 M:270 C: Current Application Number differs, Replaced Current Application No
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:428 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8